### United States Environmental Protection Agency Criminal Investigation Division

<b>Case Number</b> 0800-0497	Investigative Activity Report
Case Title: Energy Laboratories, Inc.	Reporting Office: Denver, CO, Area Office
Subject of Report: NEIC Status Meeting	Activity Date: April 6, 2010
Reporting Official and Date:  SA  27-APR-2010, Signed by:	Approving Official and Date SAC  29-APR-2010, Approved by. SAC
04/06/2010 - On April 6, 2010, and others to discuss the s Laboratories, Inc. Casper, WY	tatus of the Radium 266 and Radium 228 data review in the Energy
DETAILS	

On April 6, 2010, Chemist provided S/A with a compact disc containing the electronic spreadsheet produced to assess if ELI Casper was able to meet the regulatory detection limit and to identify those instances where the ELI Casper appeared to have failed to meet the required sensitivity level as required by EPA methods. The CD is attached to this report and will be filed in the Denver Area Office case file.

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Case Number 0800-0497	Investigative Activity F	Report
Case Title: Energy Laboratories, Inc.		Reporting Office: Denver, CO, Area Office
Subject of Report: Case Status Meeting With Reporting Official and Date: SA 29-APR-2010, Signed by:	AUSA Jim Anderson	Activity Date: April 9, 2010 Approving Official and Date: , SAC 29-APR-2010, Approved by: SAC
SYNOPSIS 04/09/2010 - On April 9, 2 Jim Anderson to discuss th	010, S/A EPA CID, re status of the Energy Laboratories, I	met with Assistant U.S. Attorney nc. investigation.
On April 9, 2010, S/A to discuss the status of the Anderson on recent investi	Energy Laboratories, Inc. investigation	stant U.S. Attorney Jim Anderson on. S/A briefed AUSA
counsels, in I that were provided to	on the nature of the meet December 2009. AUSA Anderson was by defense counsel during the December 20/A upon locating the documents.	s unable to locate the documents ber meeting. AUSA Anderson
	d an interest in reaching out to the De equest an experienced environmental gation.	
S/A and AUSA A	anderson agreed to meet in a couple o	f months, preferably with the ECS

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attorney.

Case Number

0800-0497 Reporting Office: Case Title: Energy Laboratories, Inc. Denver, CO, Area Office **Activity Date:** Subject of Report: October 26, 2009 Interview of EPA R8 DW Related Files: Copies to: Approving Official and Date: Reporting Official and Date: , SAC 10-NOV-2009, Approved by: 03-NOV-2009, Signed by: SYNOPSIS On October 15, 2009, S/A EPA CID, telephoned EPA Region 8, Drinking Water Program (DWP) to schedule a meeting to discuss Energy Laboratories, Inc. (ELI). When asked when could meet, responded, "I didn't know there was anything to agreed to meet with S/A at EPA CID at catch up on." 2:00 pm later that day. DETAILS On October 15, 2009, S/A EDECEMBER EPA CID, telephoned EPA Region 8, Drinking Water Program (DWP) to schedule a meeting to discuss Energy Laboratories, Inc. (ELI). When asked when responded, "I didn't know there was anything to agreed to meet with S/A at EPA CID at catch up on." 2:00 pm later that day. On October 15, 2009, at 2:00 pm, S/As and interviewed regarding knowledge of any recent conversations between EPA supervisory personnel and and Sheryl Garling, former managers at Energy Laboratories, Inc., Casper, Wyoming. advised is no longer the Lab Certification Coordinator for EPA R8 and is currently working for Supervisor of EPA R8's DWP. was asked when the most recent radiochemistry (RAD) lab certification audit was conducted by EPA R8 at ELI. replied the last RAD audit occurred in summer 2008. stated lab certification audits occur every three years.

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and Sheryl Garling regarding the status of EPA CID's criminal case or the

if has had any conversations with

has not.

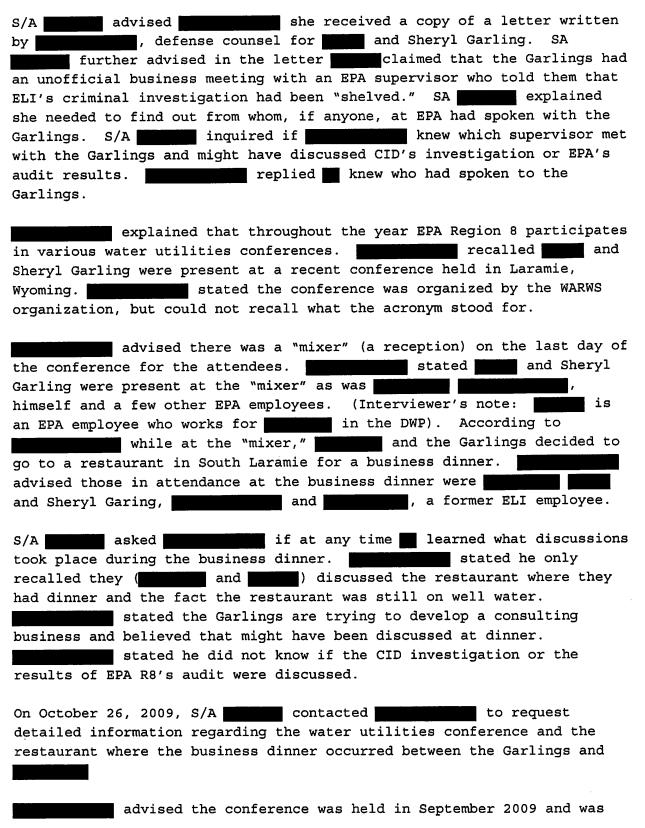
asked

outcome of the audit. replied

CID Form 3-01 (09/09) Page 1 of 3

#### Case Number

0800-0497



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#### **Case Number**

0800-0497

given by Wyoming Association of Rural Water Systems (WARWS).
advised that and others from EPA R8 drove up to Laramie,
Wyoming on September 15th and set up the EPA exposition booth around
lunch time on the 15th. and other EPA employees were at the
conference on the 16th , took down the booth on the 17th , and returned
to Denver that same day. believed the dinner attended by
and the Garlings occurred on the 16th at the
Calvaryman's Inn located in the south end of Laramie, Wyoming.
subsequently forwarded an e-mail exchange dated August 11
and 13, 2009 between , EPA Team Leader, DWP and
from the Wyoming Rural Water Association, The emails contain information
about the training exposition, a list of EPA R8 employee attendees and
scheduled presentations. See attached copy of e-mail.

#### **ATTACHMENT**

e-mail dated 10/26/2009

Case Number 0800-0497	Investigative Activity Report
Case Title: Energy Laboratories, Inc.	Reporting Office: Denver, CO, Area Office
Subject of Report: Case Status 4/12/2010 to 7/2/2010 Reporting Official and Date: , SA  15-JUL-2010, Signed by:	Activity Date: July 2, 2010 Approving Official and Date: , SAC
	ovide a case status from April 12, 2010 through July 2, 2010. Is and extensive travel, limited investigative work was a reporting period.
information contained in the compact Center (NEIC) Chemist spreadsheet produced by Chemist able to meet the regulatory detection	, EPA CID, conducted a cursory review of t disc (CD) received from National Enforcement Investigations on April 9, 2010. The CD consists of an electronic  The spreadsheet was created to assess if ELI Casper was limit and to identify those instances where the ELI Casper equired sensitivity level as required by EPA methods.
Special Agent-In-Charge of the Nati the status of the "native" file convers On May 19, 2010, S/A received evidence in the ELI investigation was	communicated with , Assistant onal Computer Forensic Laboratory (NCFL) to inquire about ion of data seized during the search warrant of October 2007. Sived an e-mail from S/A advising that the digital s still being processed through E-Capture software. S/A mount of data being processed (converted to optical character

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reader/OCR format and indexed) it was taking some time to complete.

Case Number

0800-0497

Case Title:

Energy Laboratories, Inc.

Reporting Office:

Denver, CO, Area Office

Subject of Report:

Electronic Data Review

September 2, 2010

**Activity Date:** 

Reporting Official and Date:

, SA 10-SEP-2010, Signed by. , SA Approving Official and Date:

, SAC

SYNOPSIS

09/02/2010 - On September 2, 2010, S/A imported approximately 55 gigabytes of electronic data into the I-Pro software and commenced electronic data review.

**DETAILS** 

On July 2, 2010, S/A received a 55 gigabyte ATA hard drive from EPA CID's National Computer Forensic Laboratory (NCFL). The hard drive consisted of electronic data seized from Energy Laboratories, Inc., Casper, Wyoming main and radiochemistry laboratory sites on October 30, 2007. The data contained in the hard drive is limited to the keywords search list provided by S/A to NCFL.

S/A made a few attempts to import the data with the assistance of the I-Pro Technical staff and on September 2, 2010, the data was successfully imported. The electronic data review process has been initiated.

Case Number

0800-0497

Case Title:

Energy Laboratories, Inc.

Reporting Office:

Denver, CO, Area Office

Subject of Report:

Receipt of ELI Casper's Lead 210 Data from NEIC

**Activity Date:** 

October 5, 2010

Reporting Official and Date:

, SA 06-OCT-2010, Signed by: Approving Official and Date:

, SAC 06-OCT-2010, Approved by: , SAC

SYNOPSIS

10/05/2010 - On October 5, 2010, S/A EPA CID, received an Interoffice Memorandum from Criminal Program Coordinator, National Enforcement Investigations Center (NEIC) and a compact disk (CD) containing lead 210 data extracted from Energy Laboratories, Inc.'s (ELI), electronic database.

#### DETAILS

The electronic data was seized during the execution of a federal search warrant in late 2007 in Casper, Wyoming. The CD contains three Microsoft Excel files containing ELI Casper's lead 210 data. The three Excel files contained in the CD are titled as follows:

- 1. qselpbBatches.xls
- 2. qselpbBatchSampleCounts.xls
- 3. qselpbBatchSamples.xls

A copy of said memorandum is attached to this report. The CD is filed in the Denver Area Office case file.

#### ATTACHMENT

NEIC's Lead 210 Memo and CD, 9/30/2010

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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF CRIMINAL ENFORCEMENT, FORENSICS AND TRAINING NATIONAL ENFORCEMENT INVESTIGATIONS CENTER P.O. BOX 25227, DENVER FEDERAL CENTER DENVER, COLORADO 80225

September 30, 2010

WENTO	RANDUM
Subject:	Transmittal of Lead 210 data Energy Laboratories, Inc. NEIC Project RP1210 CID Case No. 0800-0497
From:	NEIC Criminal Program Coordinator
То:	Criminal Investigation Division Denver Area Office
210 Ener	has conducted a search of the electronic database for lead gy labs data. The lead 210 data was extracted from the database and copied to some eets. Attached is one CD which contains the following MS Excel files:
qs	elpbBatches.xls (Batches table, BatchID field contains "pb") elpbBatchSampleCounts.xls (Batch Sample Counts table, Analyte field contains "lead") elpbBatchSamples.xls (Batch Samples table, BatchID field contains "pb")
Please fre	the NEIC Project Manager, if you have any questions.
Attachme	ent: a/s
Cc:	Special Agent, CID R8 (w/o CD)  EPA NEIC Project Manager (w/oCD)  EPA NEIC (w/oCD)



0800-0497		
Case Title: Energy Laboratories, Inc.	F	Reporting Office: Denver, CO, Area Office
Subject of Report:  Communications With EPA Region 8 Drinking War Program		Activity Date: September 28, 2010
Reporting Official and Date:	1-NOV-20	Approving Official and Date: , SAC
SYNOPSIS  09/28/2010 - Between September 27th and 28th, 2010, S/A  communicated with EPA Region 8 Drinking Water regarding regulatory requirements for Lead 210, Radium 226 and 228 in	Comp	PA CID, pliance program ing water.
On September 27, 2010, S/A EPA CID, EPA Region 8, Regional Criminal Enforcement Counsel (  , S/A EPA CID met with EPA CID office. The purpose of the meeting was to discuss the L  Radium 228 requirements for compliance under the Safe Drinking Water	(RCEC Prinkin ead 21	C) and was a way of the compliance and water Compliance 10, Radium 226 and
advised works for EPA Region 8's Drinking Water is responsible for the states of Wyoming and Utah. is responsible for with the Lead/Copper and the Radiological rules. Additionally, received for overseeing compliance with the Total Coliform Rule.  explained EPA Region 8 has taken a "hands off" approximately ap	or over ently as ach wi (SDW reques	rseeing compliance ssumed responsibility  ith the regulated VA) regarding st assistance from the
was questioned regarding the significance, if any, of a composition of the sensitivity levels were not met when performing an analysis then the would be unreliable. Furthermore, didn't it meet its sensitivity level?" stated that if a labor its sensitivity levels for the analysis should be a red flag in the certification.	t."  he result to ratory  oratory	went on to say that ults of that analysis is certified then "why y's failure to meet
advised that the regulated community has to abide by the contaminant level). explained that for the regulated community, the cannot exceed 5pCi: Radium 226, Radium 228 and Radium 226 & 228 indicated the MCL for gross alpha is 15pCi. stated the Region 8 provalue to indicate whether or not a facility is in compliance.	e follo combi	owing three results ined.

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asked if Lead 210 is an analysis that is required under the Safe Drinking Water Act for

Case Number

#### Case Number

0800-0497

regulatory purposes. replied that the region usually requires a check for Uranium. Lead 210 and other Beta emitters are usually only specified if the regulated entity might have an issue with infiltration, for example if they were located downstream from a nuclear facility.
On September 28, 2010, sent S/A an e-mail providing additional information and/or clarification on the information discussed during the September 27th meeting. A copy of said e-mail is attached to this report.
ATTACHMENT Email From EPA dated 9/28/2010

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#### Radionuclides follow-up from Monday 9/26/10...

to:

09/28/2010 02:37 PM

Good afternoon , I hope I captured the answers you needed from our discussion yesterday:

141.26(a)(2) discusses initial monitoring requirements, however a more detailed discussion for reduced monitoring (as what I described in our meeting) would be 141.26(a)(3). This describes the future monitoring period dependent on what the results of your samples from the initial monitoring period. Systems had to take 4 consecutive quarterly samples (only 2 quarters were required if they were below the detection limit), then they were moved into new sample periods.

In the Federal Register for the Rads Revision final rule (dated December 7, 2000), I also saw that Pb-210 monitoring is required under the Unregulated Contaminant Rule (UCMR). I have never managed that specifically, so I would have to consult with another rule manager for more detail.

From everything I could find, it appears that I misspoke about the detection limits changing from the original rule to the revision. It seems that the detection limit for alpha, Ra-226 and Ra-228 remained the same since the original rule went into effect. The detection limit for uranium was established in the revision as it had not been previously regulated.

In all the regulatory language, it only states that systems need to monitor for "uranium" not a particular isotope of uranium. This is why I have always a total or combined uranium result.

I hope that covers everything. Please feel free to let me know if there's anything else I can provide.

US EPA Region 8 Drinking Water Program 1595 Wynkoop St. Denver, CO 80202-1129 Ph: 303-312-6034

Fax: 303-312-6131

|@epa.gov

Case Number Investment	tigative Activity Report
Case Title: Energy Laboratories, Inc.	Reporting Office: Denver, CO, Area Office
Subject of Report:  Case Status Report 10/6/2010 to 12/23/2010  Reporting Official and Date:  , SA  31-DEC-2010, Signed by:  SA	Activity Date: December 23, 2010  Approving Official and Date:  SAC  03-JAN-2011, Approved by:  , ASAC
experts at EPA's National Air and Radiation	Computer Forensic Laboratory (NCFL) and the Laboratory (NAREL) for their assistance in the Assistance was requested with obtaining data in
	gh Special Agent-In-Charge , requested rom EPA NAREL with the ELI investigation. A copy
discussion was held regarding the allegations radiochemistry analysis performed under the stated there is no justifiable reason why anyo never a legitimate reason to change a number the analysis process, the proper way to process	direction of, ELI lab director.  ne would change numbers. further stated, "There is explained that if an error was discovered in ed is to reanalyze the sample. Both the original result ted to the client. stated that the fact ELI was agreed to assist S/A with the ELI
	s of some documents believed might be helpful as he investigation. A copy of said letter and the
conference call were: , Environment Counsel	ts which can be retried through ELI's Paper Vision eventory of the data that was seized from the hard

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<b>Case Number</b> 0800-0497	Investigative Activity Report
provided by NCFL but	would attempt to obtain an inventory of data seized.
but advised recalled all is	spoke to EPA CID NCFL regarding the D lab during the ELI search warrant. S/A was not at his office instruments and computers at the RAD lab that could be imaged, were NCFL, had oversight at the RAD lab during the search
an agent with the U.S. Fish telephone conversation of c NCFL's Report of Acquisiti	received an email from former EPA S/A currently and Wildlife Service, recapping a request S/A made wia a computer data needed for the investigation and provided a copy of on dated January 9, 2008, wherein all computers that were forensically and RAD lab ELI sites were listed. A copy of said email is attached.
	EPA NAREL, reviewed ELI search warrant D lab at the EPA CID office.
from the brief evidence revi	received an email from which included his notes ew conducted of ELI documents at the EPA CID office days earlier. Ites are attached to this report.
NCFL, requesting additiona	email Assistant Special Agent-In-Charge linformation needed for the data analysis as requested by said email is attached to this report.
On December 8, 2010, S/A hard drive to S/A the email is attached to this	containing files he believed were responsive to my request. A copy of
both from EPA's NAREL la and advised the hard December 22, 2010. S/A receive the hard drive and a	had a brief conference call with and and aboratory. S/A discussed the data received from S/A drive containing the data was being shipped to the NAREL on requested and contact S/A once they fiter they have had an opportunity to view its contents. S/A what other information or documentation, if any, is required by s to be completed.
by at the NAREL had received the hard drive raw data needed from the	received confirmation that the hard drive had been received lab. S/A also received an email from advising he and confirmed the "MDB" extension files on the hard drive include the Gamma Products instruments. However, the "SDT", "BDT" and re binary which requires information from the instrument manufacturer

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in order for to be able to read and analyze the data. advised will be contacting the manufacturers to obtain the information he needs to read the data. A copy of said

email is attached.

#### **Case Number**

0800-0497

#### ATTACHMENT

- 1. Initial Request for EPA NAREL Assistance, 9/27/2010
- 2. Official Follow-up Request for EPA NAREL Assistance, 10/7/2010
- 3. Email From S/A 10/29/2010
- 4. Email from EPA NAREL, 11/8/2010
- 5. Email Request For Information From NCFL, 11/22/2010
- 6. Email from S/A Regarding Hard Drive Shipped, 12/8/2010
- 7. Email From NAREL, Regarding Data, 12/23/2010



### United States Environmental Protection Agency

#### **Criminal Investigation Division**

Denver Area Office 1595 Wynkoop Street 8-CID Denver, CO 80202



September 27, 2010

Branch Chief U.S. EPA National Air and Radiation Environmental Laboratory 540 South Morris Avenue Montgomery, AL 36115-2601 Voice

> Request for Assistance RE: EPA CID Case No. 0800-0497

Dear

This letter is to request the U.S. EPA National Air and Radiation Laboratory's assistance in a criminal investigation involving Energy Laboratories, Inc., Casper, Wyoming. The investigation involves the alleged falsification and/or manipulation of data in drinking water samples containing radioactive isotopes.

EPA CID needs the assistance of an expert in the field of radiochemistry to review and interpret data to determine whether the allegations of falsification and/or manipulation of data is supported by the documentation gathered to date.

with any questions or further Please contact Special Agent clarification of this request.

Sincerely,

Special Agent-In-Charge Denver Area Office

, Chief Technical Support Center U.S. EPA

cc:



#### United States Environmental Protection Agency Criminal Investigation Division

Denver Area Office 1595 Wynkoop Street 8-CID Denver, CO 80202



October 7, 2010

Words Words

RE: Request for Assistance

EPA CID Case No. 0800-0497

Dear ,

This letter serves as a follow-up to the original request for assistance by the U.S. EPA National Air and Radiation Laboratory in a criminal investigation involving Energy Laboratories, Inc., Casper, Wyoming (dated 9/27/10). As previously stated, the investigation involves the alleged falsification and/or manipulation of data in drinking water samples containing radioactive isotopes.

As you discussed with Special Agent , enclosed are two compact disks (CD) containing electronic data seized from ELI Casper and documents we believe may assist during the review of the electronic data. Said data and documents were seized during the execution of a federal criminal search warrant in late 2007. Attached is a summary of the documents being provided.

Please contact Special Agent with any questions or further clarification of this request.

Sincerely,

Special Agent-In-Charge

cc: Technical Support Center U.S. EPA

Attachments: 1) CD - Radium 226 & 228 data

2) CD - Lead 210 data

3) ELI SOP: Gross Alpha & Gross Beta Radioactivity in Drinking Water

Denver Area Office

4) ELI SOP: Radium 228 in Drinking Water

5) ELI SOP: Alpha-Emitting Radium Isotopes in Drinking Water

6) Miscellaneous ELI documents, re: Radium 226 & 228, Lead 210

7) Summary of witness statements

#### **Attachments Summary**

1) CD - Radium 226 & 228 data. The following Microsoft Excel spreadsheets are contained in the CD:

Ra226DW+PWSbyVolume.xls Ra228DW+PWSbyVolume.xls qselNEIC226Reports2.xls qselNEIC228Reports2.xls

NOTE: Both spreadsheets named "qselNEIC..." were generated by NEIC as an initial preliminary review of the electronic data. A review of the NEIC calculations for accuracy is appreciated. However, we request that the NAREL conduct its own analysis independent of the analysis completed by NEIC.

- 2) CD Lead 210 data. The following Microsoft Excel spreadsheets are contained in the CD: qselpbBatches.xls qselpbBatchSampleCounts.xls qselpbBatchSamples.xls
- 3) ELI SOP: Gross Alpha & Gross Beta Radioactivity in Drinking water
- 4) ELI SOP: Radium 228 in Drinking Water
- 5) ELI SOP: Alpha-Emitting Radium Isotopes in Drinking Water
- 6) Miscellaneous ELI documents, re: Radium 226 & 228, Lead 210
  - a) "QA'ING SETS" (RAD, Box 1, #17)
  - b) "Memorandum" (RAD Box 1, #53)
  - c) "Pb-210" (RAD Box 3, #94)
  - d) "Procedure to Analyze Ra226, Ra228, and Pb210" (RAD Box 3, #94)

NOTE: All documents listed above were seized during the execution of a federal criminal search warrant at ELI Casper in late October 2007. Any hand-written notes on the documents were notes made by unknown individuals at ELI Casper.

7) Allegations Summary: Witness Statements – Key Points
This document contains key points from statements made by witnesses during
the investigation. These witnesses are either current or former ELI employees.

Please con	itact S/A	,	EP.	A C	ID	at	with	any	questions
								•	•

ELI Into	
to:	
10/29/2010 04:25 PM	. ,
10/29/2010 04:23 Pr	٧.
Cc:	

Show Details

, as I understood the email you sent and the phone conversation we had last week, you:

- 1) wanted a complete list of computers which had been imaged during the search warrant,
- 2) wanted to know where each image was taken,
- 3) wanted to know which imaged computers were assigned to which personnel and,
- 4) wanted to know if any lab instruments were imaged.

The Report of Acquisition dated 1/9/2008 is attached. It contains much of the information you wanted. It is a complete list of all imaged computers, to include the location where they were found and who, if known, was assigned to the computer. It also documents the known use of the computer, if that information was available/obtained. Remember, ELI personnel were not always available to answer questions in every area where a computer was imaged and, as I recall, the Rad lab was mostly shut down and vacant shortly after the service of the warant.

I've researched the case notes and was able to retrieve a little more data and have annotated the attached copy of the Report of Acquisition to reflect that information.

Also, duplicate copies of all images were sent to NEIC for analysis, as indicated on page 8 of the report.

None of the case notes indicate any instruments, per se, were imaged.



Case Title / Number: Energy Labs Inc. / 0800-0497 / Lab F08-08
Date: January 9 <sup>th</sup> , 2008
To: Computer Specialist, Information Technology Branch, NEIC, Denver, C
From: SA NCFL
Subject: Transfer of Forensic Images For Analysis of Lab Data

Details: On October 30<sup>th</sup>, 2007 the National Computer Forensics Lab (NCFL) and the National Enforcement Investigations Center (NEIC), Information Technology Branch, assisted SA Denver Area Office, in the execution of a search warrant and the seizure of electronic media at Energy Labs Inc., Casper, WY. During the warrant thirty-seven computers were forensically imaged or logically copied. SA has requested that this seized media be examined for information relevant to ongoing investigation of Energy Labs Inc.

Authorization For Analysis: SA has a search warrant for Energy Labs Inc. which provides the requisite authorization to conduct an analysis on all seized media.

Receipt of Evidence: On October 30<sup>th</sup>, 2007 the computers identified below were forensically imaged or logically acquired from Site #1 and Site #2 at Energy Labs Inc.

#### Site #1

System #1

Primary Known User or Purpose:

Supervisor Approval: ASAC

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Logical Volume of Organics Server

Lab Personnel

Server Room Second floor Site #1

Generic SCSI Server

N/A

Logical acquisition of organics server files

System #2

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room A Sample Login PC4
ELI Sample Login Personnel

Room A Site #1
Dell Optiplex GX620

F3CRY81

Physical image of hard drive

System #3

Primary Known User or Purpose:

Location Found:

Room A Sample Login PC5
ELI Sample Login Personnel

Room A Site #1

LAW ENFORCEMENT SENSITIVE

This report contains the results of forensic analysis conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted on seized or submitted electronic evidence and remains the conducted or submitted electronic evidence and remains the conducted electronic evidence electronic elec



Make and Model: System Serial No.:

Forensic Image Description

Dell Optiplex GX620

FTM4NB1

Physical image of hard drive

System #4

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room A Sample Login PC6
ELI Sample Login Personnel

Room A Site #1 Dell Optiplex GX620

9QR0C81

Physical image of hard drive

System #5

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room A Sample Login PC7
ELI Sample Login Personnel

Room A Site #1
Dell Optiplex GX620

9WQX6D1

Physical image of hard drive

System #6

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room A Sample Login PC8
ELI Sample Login Personnel

Room A Site #1 Dell Optiplex GX620

HCC1041

Physical image of hard drive

System #7

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room A Sample Login PC9
ELI Sample Login Personnel

Room A Site #1
Dell Optiplex GX620

**3SMQY71** 

Physical image of hard drive

System #8

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room F PC13

Room F Site #1 Dell Optiplex 240 542BR11

Physical image of hard drive

System #9

Primary Known User or Purpose.

Location Found: Make and Model: System Serial No.:

Forensic Image Description

Room L PC11

Room L Site #1
Dell Optiplex GX620

D586VB1

Physical image of hard drive

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System #10

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #11

Primary Known User or Purpose:

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #12

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #13

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #14

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #15

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #16

Primary Known User or Purpose:

Room M PC10

Room M Site #1

Dell Optiplex GX620

3X2K9B1

Physical image of hard drive

Room N PC2

Room N Site 1

Dell Optiplex GX620

**3VM4NB1** 

Physical image of hard drive

Room Q PC1

Cheryl Garling Room Q Site #1

Dell Optiplex 740

Q2828F3P

Physical image of hard drive

Room X PC12

Room X Site #1 Dell Optiplex 740

37LZWC1

Physical image of hard drive

Room AG Dehart PC1

Room AG Site #1\_

Hard Drive Found in External USB Case

Physical image of hard drive

Room AS Laptop 1

Cheryl Garling

Room AS Conference Room Site #1

Dell Latitude D810

D3LV791

Physical image of hard drive

TUESTINE, CASPERLA

ENERGY ONLEGA

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Location Found:

Trailer Adjacent to Main Building @ Site #1 Dell Optiplex 740

Make and Model: System Serial No.: D3NR5PC1

Forensic Image Description

Physical image of hard drive

Site #2

System #1

RmA-PC1

Primary Known User or Purpose:

Radiological Lab PC Room A Site #2

Location Found: Make and Model:

Forensic Image Description

Physical image of hard drive

System #2

Primary Known User or Purpose:

RmB-PC1 Radiological Lab PC Room B Site #2

Location Found: Make and Model: System Serial No.:

Dell Optiplex GX 260 CM6BG21

Forensic Image Description

Physical image of hard drive

System #3

Primary Known User or Purpose:

RmB-PC2

Location Found:

Radiological Lab PC Room B Site #2

Make and Model: System Serial No.:

Dell Optiplex 740 HDWVVC1 (Service Tag)

Forensic Image Description

Physical image of hard drive

System #4

Primary Known User or Purpose:

RmC-PC2 Radiological Lab PC Room C Site #2 Dell Optiplex GX620

Location Found: Make and Model: System Serial No.:

78MQY71 -

Forensic Image Description

Physical image of hard drive

System #5

RmC-PC3 Primary Known User or Purpose:

Radiological Lab PC Room C Site #2

Location Found: Make and Model: System Serial No.:

Dell Optiplex 740 57LZWC1

Forensic Image Description

Forensic Image Description

Physical image of hard drive

System #6

Primary Known User or Purpose:

RmD-PC1 Radiological Lab PC Room C D Site #2

Location Found: Make and Model:

Dell Optiplex GX260

RADIO CHELLI DATASASE Physical image of hard drive

LAW ENFORCEMENT SENSITIVE

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Page 4 of 8

DATA ENLINY, STACE SAMPLES



System #7

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #8

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #9

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #10

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #11

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #12

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #13

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.: RmD-PC2

Radiological Lab PC

Room D Site #2

Dell Dimension XPS B866

FJ5M501

Physical image of hard drive

RmD-PC3

Radiological Lab PC .

Room D Site #2

Dell Optiplex GX260

BJ23F21

Physical image of hard drive

RmE-PC1

Radiological Lab PC

Room F Site #2 Dell Optiplex SX280

DD4DJ71

Physical image of hard drive

RmE-PC2

Radiological Lab PC Room E Site #2

Dell Optiplex 740 BFWVVC1

Physical image of hard drive

RmE-PC3

Radiological Lab PC

Room E Site #2

Dell Optiplex GX750

5295T01

Physical image of hard drive

RmE-PC4

Radiological Lab PC Room E Site #2

**Dell Dimension** 

FK8SC01

Physical image of hard drive

RmE-PC5

Radiological Lab PC

Room E Site #2

Dell

**HQPHFD1** (Service Tag)

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Forensic Image Description

Physical image of hard drive

System #14

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #15

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #16

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #17

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #18

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #19

Primary Known User or Purpose:

Location Found: Make and Model: System Serial No.:

Forensic Image Description

System #20

Primary Known User or Purpose:

Location Found:

RmE-PC6

Radiological Lab PC

Room E Site #2

Generic

None

Physical image of hard drive

RmE-PC8

Radiological Lab PC

Room E Site #2
Dell Optiplex 740

7NR5PC1

Physical image of hard drive

RmE-PC9\_

Radiological Lab PC

Room E Site #2

Dell Dimension 3100

8TN24B1 (Service Tag)

Physical image of hard drive

RmE-PC10

Radiological Lab.PC

Room E Site #2

Generic

None

Physical image of hard drive

RmE-PC11

Radiological Lab PC

Room E Site #2

Generic (P-120)

CC961655

Physical image of hard drive

RmE-PC12

Radiological Lab PC

Room E Site #2

SpaceWalker

None

Physical image of hard drive

RmE-PC13

Radiological Lab PC

Room E Site #2 ---

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Page 6 of 8



Make and Model:

EM PAC (Generic)

System Serial No.:

El422729

Forensic Image Description

Physical image of hard drive

System #21

RmE-PC14 Primary Known User or Purpose:

Location Found: Make and Model: Radiological Lab PC Room E Site #2

Dell

System Serial No.:

JQPHFD1 (Service Tag)

Forensic Image Description

Physical image of hard drive

Forensic Acquisition/Analysis: All computers were imaged at Energy Labs Inc. on October 30th, 2007. All images/logical copies were acquired either via the use of EnCase Examiner forensic software (and accordingly are in the EnCase image format, i.e. \* E01 files), via Voom Technologies, HardCopy II hard drive imaging device or via logical copy. Those raw images acquired with the HardCopy II were subsequently reacquired at the NCFL and converted to the EnCase . E01 format. Images have been stored as evidence at the NCFL pending analysis.

The Western Digital 750GB hard drive (SN: 3QD0692T) accompanying this report contains:

- Specified backups and logical copies of files obtained from Site #1 and.
- 2. All forensic images obtained at Site #2.

The drive contains the folders and subfolders shown below:

Folder Name: Energy Labs Inc. Site #1

Backups (lab data backup files from Main File Server) Subfolder:

Organic Server Logical Files Subfolder: Organic Server Logical Files.zip Logical File:

Folder Name: Energy Labs Inc. Site #2

Subfolder: Room A PC 1

Subfolder: Room B PC 1

Subfolder: Room B PC 2

Subfolder: Room C PC 2

Subfolder: Room C PC 3

Subfolder: Room D PC 1

Subfolder: Room D PC 2

Subfolder: Room D PC 3

Subfolder: Room E PC 1 Subfolder, Room E PC 10 Middle

Subfolder: Room E PC 10 Top

Subfolder: Room E PC 11

Subfolder: Room E PC 12

Subfolder: Room E PC 12 Drv 2

Subfolder: Room E PC 13

Subfolder: Room E PC 14

Subfolder: Room E PC 2

LAW ENFORCEMENT SENSITIVE

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Subfolder: Room E PC 3
Subfolder: Room E PC 4
Subfolder: Room E PC 5
Subfolder: Room E PC 6
Subfolder: Room E PC 8
Subfolder: Room E PC 9
Subfolder: Voom HDR Files

These images are being transferred to the NEIC Information Technology Branch for analysis of all lab-related data

#### Requested NEIC analysis should focus on:

1) Data generated from lab instruments,

Documents and files (i.e. Word processor documents and/or spreadsheets, graphics or similar files)
containing lab-related reports/data.

#### NCFL analysis will focus on:

 Documents and files containing non-lab data such as business-related Word processor files, spreadsheets, communications and similar files.

Status: Pending completion of analysis of seized media by NEIC and the NCFL.

Disposition of Duplicate Original Evidence: On January 14th, 2007 the Western Digital hard drive containing all duplicate original evidence specified above was sent to NEIC via FEDEX (Tracking No# 799781331818).

#### Distribution

Original Report: SA Copy:

Denver Area Office

, Computer Specialist, Information Technology Branch, NEIC, Denver, CO

## My notes from last week, with a few additions





US EPA National Air and Radiation Environmental Laboratory
Phone:
Fax: (334) 270-3454

#### Requested PC information

- A full directory listing, or at least a directory tree, from each drive
- All Access databases (\*.mdb), especially g5000w.mdb (from the Gamma Products machine)
- All Excel spreadsheets (\*.xls) These may have been used to calculate their results.
- Berthold 770 sample data files (\*.sdt) Sample data seem to be in \*.sdt, backgrounds in \*.bdt, and efficiency checks in \*.fdt. We care most about the SDT files. These may be text or binary. If they are binary, we'll need information from the instrument manufacturer to decode them.
- Packard 3100TR data files (all files in a "Packard" folder or its subfolders) These will be most
  useful to us if they have numerical extensions, e.g., \*.001, \*.002, ..., indicating that there was one
  data file per batch of samples analyzed. (These files contain human-readable text.)
- Perhaps all PDF files (\*.pdf). Reports to clients may have been scanned and saved in PDF format. Graphic formats (e.g., JPEG) are another possibility.

#### Notes and observations

- ELI almost always met the RDL (required detection limit) for <sup>226</sup>Ra. It almost always failed to meet the RDL for <sup>228</sup>Ra.
- When a client specifically requested a DL of 0.5 pCi/L, ELI knew how to reach it by analyzing
  more sample and counting longer. So, incompetence isn't the explanation for their failure to meet
  the 1.0 pCi/L DL at other times. They knew what their DL was and they kept doing the same thing
  anyway.
- Given a gross alpha spreadsheet similar to the spreadsheets for <sup>226</sup>Ra and <sup>228</sup>Ra, I could calculate DLs for that analysis too. However, we know they were counting these samples for 720 min, apparently trying to reach the RDL.
- The <sup>228</sup>Ra ingrowth times (for ingrowth of <sup>228</sup>Ac from <sup>228</sup>Ra) were often less than the traditional 36 h. It appears they were cutting corners. The analysis determines <sup>228</sup>Ra activity by measuring the decay product <sup>228</sup>Ac, which is easier to measure than <sup>228</sup>Ra. The half-life of <sup>228</sup>Ac is 6.15 h, which means that after 6.15 h of ingrowth, the <sup>228</sup>Ac is half of the <sup>228</sup>Ra activity; after 12.3 h the <sup>228</sup>Ac is ~75 % of the <sup>228</sup>Ra; after 18.45 h the <sup>228</sup>Ac is ~87.5 % of the <sup>228</sup>Ra activity, etc. So, there are diminishing returns after a while. After 18.5 hours, you're within 12.5 % of the maximum possible ingrowth factor.
- There are some anomalies in the <sup>228</sup>Ra spreadsheets. From time to time the count times were unusually short and variable, while the gross count rates and calculated activities were high and variable. But when you multiply the gross count rate and the count time, you get almost the same total number of counts each time (~3000). That just isn't plausible. Statistically, it's almost impossible. I can't imagine a motive for anyone deliberately faking these results. Either a software bug or a recurring user error seems more likely, but it begs for follow-up.
- There were some short count times in the <sup>228</sup>Ra spreadsheet, but these looked more realistic, and the total gross counts weren't suspiciously consistent.
- The ELI LIMS database contains a huge amount of useful information, and you can browse it easily using Microsoft Access.
- To prove the more serious charges, we need not only the LIMS data but also raw (or almost raw) data from the instruments. We also need copies of reports to clients.
- e-mail dated April 18, 2007, says the lab was getting biased results for gross alpha from the "Tennelec" and that by this time they were using only the Gamma Products counter for gross alpha. If they fudged gross alpha results, they probably did it more often when they were using one of the Tennelec counters.
- If we had old backup copies of the LIMS database, it would be easy to write a program to compare old records to newer versions to look for unexplained changes. This might not reveal anything significant, because the changes might have been made soon after the analyses were completed, before the original records were backed up. But it would still be easy to do and might be worth the time.
- The Gamma Products software saves all raw data in a Microsoft Access database. At our lab the database is named G5000W.MDB.

- ELI had three "Tennelec" counters, and each printed results in a different format. They must have been different models. When we had Tennelec counters at my lab (models from the late 1980s), they did not save data at all. They only printed it. I don't know about the models used at ELI.
- The Packard 3100TR (used at ELI for tritium, <sup>210</sup>Pb, and radon analysis) can be set up to save data in CSV files, either overwriting the same file each time, or creating a new file for each batch using an auto-incrementing number for the file extension. Or it can be set up to print without saving anything. Let's hope they saved each batch of data in a new file.
- As far as I can tell, the backgrounds used for background correction of sample results came from analysis of a "reagent blank" in each batch, which means the background count time is always the same as the sample count time. The short daily "backgrounds" were just contamination checks for QC purposes. In a few cases, I saw that the count rate used for background (blank) correction was the same as the reagent blank cpm, but in other cases it wasn't the same.

The term "detection limit" means different things to different people. In the drinking water regulations, it has a specific definition for radiochemical analyses, which ELI was clearly aware of. It is defined to be the activity concentration that can be measured with a relative standard deviation of 1/1.96 (or 51 %) (counting statistics only). It's an odd definition, but it comes from the notion that a 95 % confidence interval for the result is given by  $x \pm 1.96\sigma$ , where x is the measured result and  $\sigma$  is the (estimated) standard deviation of the measurement. If the lab measures a result x such that  $x > 1.96\sigma$ , then it appears very likely that the true activity concentration is greater than zero.

With a few assumptions one can derive an expression for the net count rate  $R_D$  that gives you this detection limit.

$$R_{\rm D} = \frac{1.96^2}{2t_{\rm S}} \left[ 1 + \sqrt{1 + \frac{4R_{\rm B}t_{\rm S}}{1.96^2} \left( 1 + \frac{t_{\rm S}}{t_{\rm B}} \right)} \right]$$

where  $t_S$  is the sample count time,  $t_B$  is the background/blank count time, and  $R_B$  is the background/blank count rate. (I showed the equation and its derivation to ELI.) Since  $t_S = t_B$  this equation can be simplified.

$$R_{\rm D} = \frac{1.921}{t_{\rm S}} \left[ 1 + \sqrt{1 + \frac{4R_{\rm B}t_{\rm S}}{1.921}} \right]$$

To get the DL for the measurement, you have to convert the count rate  $R_D$  to an activity concentration. You do this exactly the way you convert the actual measured net count rate to an activity concentration – typically by dividing it by several factors such as the sample volume, efficiency, recovery, and decay and/or ingrowth factors. If you don't have all those individual factors (as I did not in the case of the  $^{228}$ Ra data), just use the ratio between the lab's sample result and the net count rate.



I recently met with the radiochemistry expert in the ELI case. Unfortunately, from NCFL's Report of Acquisition there is no way of determine which computers, if any, contain data from the instruments in the radiochemistry lab. It is my understanding that the instruments in the lab most likely were saving data onto the lab computers. I need to determine, with certainty, if the computers contain the raw data we need for the investigation.

The NAREL expert provided the following request for information. I believe our first step should be to address his first request to obtain list of files from each computer to include the file extensions. He should be able to determine from the directory listing which computers contain the raw data we need. Once those computers are identified I can make a request to obtain a copy of the data in a format the expert can review.

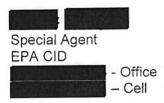
Additionally, I need to review the information that ELI was scanning and storing in its Paper Vision program. It is my understanding from witness interviews that ELI was scanning the final lab results reports and then shredding the originals. That is why it is critical that I get both the raw data and the final report so the expert can track the analysis from beginning to end.

The following information has been requested by the radiochemistry expert:

- A full directory listing, or at least a directory tree, from each drive
- All Access databases (\*.mdb), especially g5000w.mdb (from the Gamma Products machine)
- All Excel spreadsheets (\*.xls) These may have been used to calculate their results.
- Berthold 770 sample data files (\*.sdt) Sample data seem to be in \*.sdt, backgrounds in \*.bdt, and efficiency checks in \*.fdt. We care most about the SDT files. These may be text or binary. If they are binary, we'll need information from the instrument manufacturer to decode them.
- Packard 3100TR data files (all files in a "Packard" folder or its subfolders) These will be most useful to us if they have numerical extensions, e.g., \*.001, \*.002, ..., indicating that there was one data file per batch of samples analyzed. (These files contain human-readable text.)
- Perhaps all PDF files (\*.pdf). Reports to clients may have been scanned and saved in PDF format. Graphic formats (e.g., JPEG) are another possibility.

Please call or write with any questions you may have.

#### Thank you,



U.S. EPA CID 1595 Wynkoop Street Mail Code: 8CID Denver, CO 80202-1129 - Main

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ELI		_		
		}		
to:	·			
12/08/201 Cc:	0 05:	12 PM	ſ	
Show Det	ails			

I've FedEx'ed my response to your latest request for further data from the ELI images . You'll be getting it tomorrow.

In your email to an all on 11/22/10 you mentioned you "might" want all PDF files. There are many of them as you can imagine and they're currently being segregated from all the images but won't be available for me to send to vou until next week.

The hard drive you'll be receiving tomorrow contains the following from all lab PCs:

All Berthold 770 files (SDT, BDT, FDT).

All Microsoft Access files (MDB, MDE).

All Excel spreadsheet files (XLS).

A directory listing of all files on every computer we imaged in the ELI lab (Site 2).

Email which contained the words "report" or 3100TR" in the subject line.

After your radiochemistry expert reviews the data perhaps we can talk, or advise me via email, ref further information regarding the pertinent Packard 3100TR files.

They have not yet been processed. I'd like the expert to provide further information regarding their location on each PC so you don't get a lot of irrelevant files with similar extensions.

Senior Program Specialist US Fish & Wildlife Service Digital Evidence Recovery / Technical Support Unit 701 San Marco Blvd., (Suite 7W) Jacksonville, Florida 32207 (Desk)

(Cell) @FWS.gov From:

/MTG/USEPA/US

To:

/CID/R8/USEPA/US@EPA

Date:

Thursday, December 23, 2010 11:24AM

Subject:

Re: Hard drive

I tried calling the Oak Ridge number, but they're closed till Monday.

US EPA National Air and Radiation Environmental Laboratory

Phone:

Fax: (334) 270-3454

--2010-12-23 11:59:38---Thank you for the update. Will you be reaching out to the instrument manufacturers to obtain the inf

From:

/CID/R8/USEPA/US

To:

/MTG/USEPA/US@EPA

Date:

2010-12-23 11:59

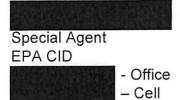
Subject: Re: Hard drive

Thank you for the update.

Will you be reaching out to the instrument manufacturers to obtain the information you need or is that something you need me to do?

Thanks again and happy holidays.

Alina



U.S. EPA CID 1595 Wynkoop Street Mail Code: 8CID

Denver, CO 80202-1129 - Main

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---12/23/2010 10:55:46 AM---The hard drive arrived today. The MDB files do include raw data from the Gamma Products instruments,

From:

/MTG/USEPA/US

To:

/CID/R8/USEPA/US@EPA

Date:

12/23/2010 10:55 AM

Subject: Hard drive

The hard drive arrived today. The MDB files do include raw data from the Gamma Products instruments, as expected.

The SDT, BDT, and FDT files are binary, as I feared. We'll need information from the instrument manufacturer to read them.

No PDFs yet, as you know. I haven't searched through the directory yet to see what PDFs might be available.

US EPA National Air and Radiation Environmental Laboratory

Phone:

Fax: (334) 270-3454

Case Number

0800-0497

Case Title:

Energy Laboratories, Inc.

Reporting Office:

Denver, CO, Area Office

Subject of Report:

0800-0497Report of AnalysisFinal 020711

Activity Date:

March 9, 2011

Reporting Official and Date:

, SA 10-MAR-2011, Signed by: , SA Approving Official and Date:

, SAC , ASAC , ASAC

SYNOPSIS

The forensic analysis of the seized computer data has been completed. Files of potential evidentiary value are being forwarded to SA potential, Denver Area Office.

DETAILS

Further details are contained in the attached Report of Analysis. The analysis disk has been forwarded via separate cover for review.

ATTACHMENT

0800-0497 Report of Analysis Final 020711



# US EPA CID National Computer Forensics Laboratory (NCFL) Report of Analysis

Case Title / Number: Energy Labs Inc. / 0800-0497 / F08-08 Date: March 7, 2011 Denver Area Office To: SA NCFL From: SA Subject: Report of Analysis per Request of 2/7/2011 Supervisor Approval: ASAC Details: The forensic analysis of the seized computer data has been completed. Files of potential evidentiary value Denver Area Office. are being forwarded to SA Authorization for Analysis: On or about October 30, 2007, SA Denver Area Office, obtained a federal search warrant for the office of Energy Labs Inc. (ELI), located in Casper, WY and provides the authority for the analysis of the seized computer data. Forensic Acquisition and Analysis: Reference is made to the previous NCFL Reports by SA C. D. and SA NCFL, dated January 9, 2008, March 16, 2008, February 5, 2009, and February 19, 2009. Analysis of the forensic images was conducted at the NCFL from a new request from SA conducted on February 7, 2011 between February 21, 2011 and February 28, 2011. The results of that analysis are documented below.

Analysis of Logical Files: Logical files on all the computer images were forensically examined. Logical files contained on a computer hard disk are normally accessed through what is referred to as the file system. Active or logical files are files that are listed in the normal directory view. That is, active/logical files can be listed from a DOS prompt with the dir command or listed by opening a Windows Explorer directory or other File Manager program. Logical data files such as spreadsheets, PDFs, graphics, documents, and emails found on the media examined were reviewed for potential evidentiary content.

At the request of the case agent, the search was limited to files containing "laboratory analytical results." Those files determined to be potentially relevant based on parameters provided by SA were placed into folder entitled "PDF" onto the Results DVD.

**NOTE:** The files obtained from the forensic images were converted into Portable Document Format (PDF) and IPro load format files for review by the case agent. All results were screened for malware.

**Status:** This is a final report and no further analysis is planned. Additional information may be available on files included on the Results CD. Possible information may include but is not limited to: file properties, file "owner", source / origin of the file, duplicate occurrence of file(s), file revisions, metadata (i.e. embedded file data which may reveal a documents title, subject, authorship, edits and other information). If additional information on any file(s) included on the Results CD is necessary to further the investigation or if the search criteria changes as a result of this analysis or other investigative efforts, please contact the NCFL as soon as possible.



# US EPA CID National Computer Forensics Laboratory (NCFL) Report of Analysis

**Disposition of Original Evidence:** Only duplicate original media (i.e. forensic images) of the subject's electronic media were seized into evidence per the search warrant. The NCFL has retained an archival copy of these images.

At the conclusion of case, notify the NCFL examiner so that NCFL archival evidence can be disposed of in accordance with the OCEFT Manual.

ATTACHMENT(S)

Results DVD (2 Copies, forwarded under separate cover to Case Agent)

**DISTRIBUTION** 

Report Copy and Attachments: SA Denver Area Office

0800-0497	
Case Title: Energy Laboratories, Inc.	Reporting Office: Denver, CO, Area Office
Subject of Report: Receipt and Review of Results DVD from NCFL	Activity Date: March 16, 2011
Reporting Official and Date: , SA 30-MAR-2011, Signed by:	Approving Official and Date: , SAC , ASAC
Receipt and review of results DVD received from the National Computation (NCFL). The results were in response to a request made by S/A electronic copies of Energy Laboratories, Inc. (ELI) lab result reports	on February 7, 2011, for
On February 7, 2011, S/A requested NCFL extract all final lab ELI's radiochemistry laboratory from the forensically seized computer request is attached.	result reports generated by
On February 17, 2011, S/A e-mailed a few sample lab report NCFL, to facilitate the search for the radiochemistry lab reports.	ts to S/A
On March 10, 2011, S/A opened a United Parcel Service pack Analysis dated March 7, 2011 and two (2) DVD's labeled, "Denver A 0497, Results of 02/07/2011 Request, Results DVD, Agent Copy." To Denver Area Office's evidence storage room for safekeeping. Attache Custody (COC-10).	he DVD's will be stored in the
On March 14, 2011, S/A conducted a preliminary review of the NCFL. In reviewing the DVD, S/A became aware that the radiochemistry laboratory was unsuccessful. The documents on the documents requested.	he search for lab reports from
On March 16, 2011, S/A spoke with S/A telephonical S/A advised he used the list of parameters as we discussed and the results of that search. S/A indicated he conducted an extenthe information contained in the results DVD. S/A advised twould scan the final lab reports into a software program called Paper's the original report and supporting documentation. The EPA radiological review needs the final lab reports in order to complete his analysis of suggested S/A speak to and and speak to at the National Enforcement Investigation Center and ask if the data into ELI's laboratory information management system (LIMS).	the results on the DVD were sive search to come up with that witnesses stated ELI Vision and would then shred ical expert assisting in the data the data. S/A pomputer Forensic Technicians

ATTACHMENT

Case Number

This document contains neither recommendations nor conclusions of the EPA.

It is the property of the EPA and is loaned to your agency;
it and its contents are not to be distributed outside your agency.

#### **Case Number**

0800-0497

- 1. E-mail to NCFL Requesting Final Lab Reports for the Radiochemistry Lab
- 2. NCFL Report of Analysis for 2/7/2011 Request
- 3. Chain of Custody COC-10 for Results DVD (re: 2/7/2011 request)

History:

This message has been forwarded.

is out of the office through the end of February. However, saw your email and came by the office this weekend to look at the evidence and said that it would be quite involved to recover the files you're looking for. best estimate for him to get you what you need, given his travel schedule, is four to handle your request. has another couple of priority to six weeks, so I've asked assignments and an upcoming search warrant in two weeks, but his turn-around should still be faster than waiting for to return. will contact you and/or life has any questions. Regards, ■. ASAC National Computer Forensics Lab & Technical Investigative Equipment Support Center **Criminal Investigation Division US Environmental Protection Agency** 701 San Marco Blvd., Suite 7-West Jacksonville, FL 32207 @epa.gov Voice 904-899-5221 Fax ■/CID/R8/USEPA/US wrote: -----■/R4/USEPA/US@EPA. I/R3/USEPA/US@EPA CID/R8/USEPA/US From: Date: 02/04/2011 05:07PM ∎s@fws.gov

Hi . I hope my e-mail finds you well.

Subject: Final lab result reports for ELI

I need to extract all final lab result reports generated by ELI's Radiochemistry lab from the electronically seized evidence. These would be the final reports that were sent to the clients. Witnesses told me that ELI went to scanning and shredding their original documents in 2006 and was using PaperVision software to maintain the records. I need to get the information to the RAD experts ASAP so they can conduct their full data review.

Because I do not understand the technical side of the seizure process I am not how to suggest it be done. Can the documents under the PaperVision software be extracted in .pdf format using the I-Capture software? Let me know what your thoughts are as soon as you can. My statute of limitations is coming up in 2012 and we are trying to finalize the review with the experts.

Thank you!